

[illegible]

- [c2] 543
AI

comprising the steps of:

identifying each branch instruction;

identifying the instructions associated with an evaluation of true at run-time;

instrumenting said instructions associated with an evaluation of true with a signature instruction, wherein said signature instruction causes a unique identifier to be pushed into a predefined area of storage upon execution of said true instructions at run-time.

[c15]

Sub
A3

15. A compiler for instrumenting a computer program comprising at least one module including a plurality of instructions, at least one of said instructions being a branch instruction, each branch instruction being evaluated to be one of true and false at run-time, with at least one signature instruction for indicating the execution path of said program at run-time, said compiler comprising:
means for identifying each branch instruction;
means for identifying the instructions associated with an evaluation of true at run-time;
means for instrumenting said instructions associated with an evaluation of true with a signature instruction, wherein said signature instruction causes a unique identifier to be pushed into a predefined area of storage upon execution of said true instructions at run-time.

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